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#### Declaration under Rule 4.17:

of inventorship (Rule 4.17(iv))

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For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: METHOD FOR IDENTIFYING NUCLEIC CAPABLE OF MODULATING A GENE IN A BIOLOGICAL SYSTEM

(57) Abstract: The present invention relates to a method for identifying one or more regions of a gene of interest which are suitable targets for modulating in a biological system of interest. Said regions enable specific targeting of a gene, or of a family of genes, while minimising any effects on other genes in the biological system. The invention further relates to a computer program and a kit therefor.



International application No PCT/EP2005/006795

		PC1/EP	2005/006/95	
A. CLASSI INV.	FICATION OF SUBJECT MATTER G06F19/00			
According to	o International Patent Classification (IPC) or to both national class	lication and IPC		
	SEARCHED		<del></del>	
Minimum do G06F	ocumentation searched (classification system followed by classific	ation symbols)		
Documenta	tion searched other than minimum documentation to the extent the	at such documents are included in the field	ds searched	
Electronic d	ata base consulted during the International search (name of data	base and, where practical, search terms	used)	
EPO-In	ternal, WPI Data			
C. DOCUM	ENTS CONSIDERED TO BE RELEVANT			
Category*	Citation of document, with indication, where appropriate, of the	relevant passages	Relevant to claim No.	
X	US 2004/038278 A1 (TZERTZINIS ( AL) 26 February 2004 (2004-02-2 abstract	26)	1-19, 25-34	
	paragraph [0108] - paragraph [0 paragraph [0119] - paragraph [0 paragraph [0202] - paragraph [0 paragraph [0237] - paragraph [0	0120] 0208]		
Χ .	US 2004/072769 A1 (YIN JAMES Q 15 April 2004 (2004-04-15) abstract; claims 1-7 paragraph [0049] - paragraph [0 paragraph [0058] - paragraph [0 paragraph [0065] - paragraph [0 paragraph [0078] - paragraph [0	9052] 9060] 9071]	1-19, 25-34	
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X Furt	ther documents are listed in the continuation of Box C.	X See patent family annex.		
"A" docum	categories of cited documents : ent defining the general state of the art which is not dered to be of particular relevance	"T" later document published after the or priority date and not in conflict cited to understand the principle invention	with the application but	
"E" earlier document but published on or after the international filing date  "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another		"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone "Y" document of particular relevance; the claimed invention		
citatio "O" docum other	on or other special reason (as specified) ent referring to an oral disclosure, use, exhibition or means	cannot be considered to involve document is combined with one ments, such combination being of in the art.	an Inventive step when the or more other such docu-	
later t	ent published prior to the international filling date but han the priority date claimed	"&" document member of the same particle.  Date of mailing of the international		
	actual completion of the International search 27 December 2005	0 5 -07- 20	·	
Name and	mailing address of the ISA/ European Patent Office, P.B. 5818 Patentlaan 2 NL - 2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo nl,	Authorized officer		
	Fax: (+31-70) 340-2040, 1x. 31 631 660 fil,	Türkeli, Y		

International application No
PCT/EP2005/006795

		PC1/EP20	05/006795
C(Continua			
Category*	Citation of document, with indication, where appropriate, of the relevant passages		Relevant to claim No.
X	SEMIZAROV D ET AL: "Specificity of short interfering RNA determined through gene expression signatures" PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF USA, NATIONAL ACADEMY OF SCIENCE, WASHINGTON, DC, US, vol. 100, no. 11, 27 May 2003 (2003-05-27), pages 6347-6352, XP002316495 ISSN: 0027-8424 abstract page 6347, column 1, paragraph 1 - column 2, paragraph 3 page 6348, column 1, paragraph 3 page 6352, column 1, paragraph 2 - paragraph 3		1-19
A	SNOVE 0 ET AL: "Many commonly used siRNAs risk off-target activity" BIOCHEMICAL AND BIOPHYSICAL RESEARCH COMMUNICATIONS, ACADEMIC PRESS INC. ORLANDO, FL, US, vol. 319, no. 1, 18 June 2004 (2004-06-18), pages 256-263, XP004509877 ISSN: 0006-291X abstract; table 1 page 256, column 1, paragraph 1 - page 261, column 1, paragraph 1		1-19

International application No. PCT/EP2005/006795

Box II Observations where certain claims were found unsearchable (Continuation of Item 2 of first sheet)
This International Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:
1. Claims Nos.: because they relate to subject matter not required to be searched by this Authority, namely:
2. X Claims Nos.: 35 because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful International Search can be carried out, specifically:  see FURTHER INFORMATION sheet PCT/ISA/210
3. Claims Nos.: because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).
Box III Observations where unity of invention is lacking (Continuation of item 3 of first sheet)
This International Searching Authority found multiple inventions in this international application, as follows:
see additional sheet
As all required additional search fees were timely paid by the applicant, this International Search Report covers all searchable claims.
2. As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3. As only some of the required additional search fees were timely paid by the applicant, this International Search Report covers only those claims for which fees were paid, specifically claims Nos.:
4. No required additional search fees were timely paid by the applicant. Consequently, this International Search Report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:  1-19, 25-34
Remark on Protest  The additional search fees were accompanied by the applicant's protest.  No protest accompanied the payment of additional search fees.

### FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

Continuation of Box II.2

Claims Nos.: 35

Present claim 35 relates to a product obtainable by the method of claim 1. Claims of products in terms of a process of manufacture are construed as products per se (PCT International Search and Preliminary Examination Guidelines, 5.26 and A5.26[1]). However, claim 35 does not comprise any technical features to define an "unknown nucleic acid" and the description does not provide support and disclosure in the sense of Article 6 and 5 PCT for any such product. This non-compliance with the substantive provisions is to such an extent that a meaningful search could not be carried out for claim 35 (Article 17(2)(a)(ii)).

The applicant's attention is drawn to the fact that claims relating to inventions in respect of which no international search report has been established need not be the subject of an international preliminary examination (Rule 66.1(e) PCT). The applicant is advised that the EPO policy when acting as an International Preliminary Examining Authority is normally not to carry out a preliminary examination on matter which has not been searched. This is the case irrespective of whether or not the claims are amended following receipt of the search report or during any Chapter II procedure. If the application proceeds into the regional phase before the EPO, the applicant is reminded that a search may be carried out during examination before the EPO (see EPO Guideline C-VI, 8.5), should the problems which led to the Article 17(2) declaration be overcome.

## FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

This International Searching Authority found multiple (groups of) inventions in this international application, as follows:

1. claims: 1-19,25-34

Method, computer program and kit for identifying sequences capable of modulating a gene of interest

2. claims: 20-24

Method for determining the best representative sequence in a family of sequences

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Information on patent family members

International application No
PCT/EP2005/006795

-			<del> </del>		 2005/006795
Patent document cited in search report		Publication date		Patent family member(s)	Publication date
US 2004038278	A1	26-02-2004	NONE		 
US 2004072769	A1	15-04-2004	NONE		 
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